

SIHF EWKF**HIGH TEMPERATURE MULTICORE SILICONE CABLES**

APPLICATION: These silicone insulated cables are used as mobile connecting cables for equipment where high temperatures can arise as well as for ambient air temperature between -60°C and +180 °C. It has more service life and to the flame resistance according to normal silicone cables . Also these cables are used in all areas where installation conditions are very difficult and have medium mechanical loads e.g in ship building, power plants, cooking plants, glass and ceramic works, foundaries, for high power lighting fixtures etc. These cables have more resistance against tearing and tensile strength with its special formulated silicone compound.

CABLE DESIGN

Conductor	: IEC 60228 Class 5, TS/DIN EN 60228 Class 5 Flexible copper wires, tinned;
Insulation	: Silicone rubber compound, EI2
Core identification	: According to TS HD 308 S2 & VDE 0293-308
Lay-up	: Cores laid up in layers of optimum pitch
Outer sheath	: Silicone rubber compound, EM9
Sheath colour	: RAL 9005, Black

TECHNICAL DATA

Standard	: VDE 0250, DIN VDE 0282-15 and TS HD 22.15 S1 (Designed according to)
Insulation resistance	: Min. 20 MΩ.km
Insulation resistance	: + 180 °C
Short circuit temperature	: +200°C
Rated voltage U _o /U	: 300 / 500V
Test voltage (AC 50 Hz)	: 2000 V
Temperature range	: Fixed : - 60 °C ~ + 180 °C Mobile : - 25 °C ~ + 180 °C
Min. bending radius	: Fixed : 4 x D Mobile : 7,5 x D
Flame retardance test	: IEC 60332-1 & EN 50265-2-1 IEC 60332-3 & EN 50266-2-4
Insulation integrity	: IEC 60331 , VDE 0472-814

Cross Sections

Part-number	No. of cores x Cross section (mm ²)	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
1709 05 002	2x0.50	5,7	9	40
1709 05 003	3x0.50	6,0	14	50
1709 05 004	4x0.50	6,7	19	65
1709 05 005	5x0.50	7,3	24	75
1709 05 006	6x0,50	8,1	29	80
1709 05 007	7x0.50	8,1	33	85

Part-number	No. of cores x Cross section (mm ²)	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
1709 06 002	2x0.75	6,3	14	50
1709 06 003	3x0.75	6,8	22	65
1709 06 004	4x0.75	7,5	29	85
1709 06 005	5x0.75	8,3	36	105
1709 06 006	6x0.75	9,0	43	120
1709 06 007	7x0.75	9,0	50	130

Cross Sections

Part-number	No. of cores x Cross section (mm ²)	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
1709 07 002	2x1.0	6,7	19	65
1709 07 003	3x1.0	7,1	29	80
1709 07 004	4x1.0	7,7	38	100
1709 07 005	5x1.0	8,6	48	125
1709 07 006	6x1.0	9,5	58	145
1709 07 007	7x1.0	9,5	67	150

Part-number	No. of cores x Cross section (mm ²)	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
1709 09 002	2x2.5	8,9	48	125
1709 09 003	3x2.5	9,4	72	150
1709 09 004	4x2.5	10,5	96	190
1709 09 005	5x2.5	11,6	120	240
1709 09 006	6x2.5	12,6	144	290
1709 09 007	7x2.5	12,6	168	300
1709 09 012	12x2.5	17,0	288	550
1709 10 002	2x4	10,6	77	190
1709 10 003	3x4	11,2	115	240
1709 10 004	4x4	12,5	154	280
1709 10 005	5x4	13,9	192	355
1709 10 006	6x4	15,4	230	430
1709 10 007	7x4	15,4	269	450
1709 11 002	2x6	12,6	116	265
1709 11 003	3x6	13,6	173	335
1709 11 004	4x6	15,1	230	410
1709 11 005	5x6	16,6	288	520
1709 11 007	7x6	18,0	403	660
1709 12 002	2x10	16,2	192	375
1709 12 003	3x10	17,6	288	595
1709 12 004	4x10	19,6	384	690
1709 12 005	5x10	22,0	480	900

Part-number	No. of cores x Cross section (mm ²)	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
1709 08 002	2x1.5	7,5	29	90
1709 08 003	3x1.5	7,9	43	105
1709 08 004	4x1.5	8,8	58	140
1709 08 005	5x1.5	9,6	72	165
1709 08 006	6x1.5	10,4	86	195
1709 08 007	7x1.5	10,4	101	205
1709 08 008	8x1.5	11,5	116	250
1709 08 010	10x1.5	12,6	144	300
1709 08 012	12x1.5	14,1	173	340
1709 08 014	14x1.5	15,0	202	390
1709 08 016	16x1.5	15,8	231	470
1709 08 018	18x1.5	16,8	260	530
1709 08 020	20x1.5	17,7	288	570
1709 08 024	24x1.5	19,9	346	720

Part-number	No. of cores x Cross section (mm ²)	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
1709 13 002	2x16	19,2	308	390
1709 13 003	3x16	20,4	462	500
1709 13 004	4x16	22,5	616	710
1709 13 005	5x16	25,4	770	910
1709 14 002	2x25	23,4	480	700
1709 14 003	3x25	25,6	720	1050
1709 14 004	4x25	28,0	960	1500
1709 14 005	5x25	31,5	1200	1695
1709 15 002	2x35	26,5	672	1050
1709 15 003	3x35	28,2	1008	1420
1709 15 004	4x35	31,8	1344	2000
1709 16 004	4x50	38,0	1920	2550
1709 17 004	4x70	40,5	2508	3250
1709 18 004	4x95	49,2	3648	4700